AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims

in the application.

LISTING OF CLAIMS

1.   (Currently amended)   A dispatching method for polling device data,

comprising the steps of:

1) sorting managed devices according to their types, sorting various types of data

of each device so as to form different modules, and assigning a priority attribute and a

polling period attribute to each module reading device type description data, wherein

managed devices are sorted according to their types; various types of data of each

managed device are sorted to different modules, and a priority attribute and a polling

period attribute are assigned to each module respectively;

2) dividing the managed devices into two sets: one set consisting of determining a

first set of devices to be polled and the other set consisting of devices whose

connection states need to be detected from the managed devices, wherein the first set

of devices at least comprises current operation device set; and

3) polling each module in when a system polling is initiated, dispatching a

periodical polling by determining at least one module to be polled currently from the first

set consisting of devices to be polled according to its the priority attribute and the polling

period ~~periodically~~attribute of the first set of devices, wherein a first set of data items for

describing the at least one module at least comprises a device ID and module ID;

        polling the at least one module.

        2.   (Currently amended) The method of Claim 1, ~~step 3)~~after determining the

at least one module, the method further comprising:

        ~~forming~~ inserting the at least one module to a current polling task queue

according to said periodical polling, and ~~dispatching the polling~~polling the at least one

module through the current polling task queue;

        wherein the first set of data items ~~for describing the current polling task queue~~

~~include~~ further comprises task ID, an occupied flag, ~~module ID, device ID,~~ an activation

time and a priority; said activation time is the current time ~~in the case of~~when inserting a

task and ~~will be~~is updated when a report about executing situation of the task sent from

daemons has been received; said occupied flag is set free after a corresponding

message showing the ~~polling~~task has been completed is received or the polling task is

~~overtime~~overtime.

        3.   (Original) The method of Claim 2, further comprising:

        setting a maximum number of polling tasks;

        wherein the current polling task queue is generated according to said maximum

number of polling tasks.

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4.   (Original) The method of Claim 2, further comprising:

setting a polling initiating time for system;

wherein the periodical polling is implemented based on said polling initiating time plus a polling interval.

5.   (Currently amended) The method of Claim 4, wherein the polling period attribute of a module is a ~~multiple of a~~ polling interval_ multiple, ~~equaling~~ equal to a multiple of the polling interval ~~between the periodical system polling in step 3)~~.

6.   (Currently amended) The method of Claim 5, ~~step 1)~~ further comprising:

_____ ~~the step of~~ before reading device type description data, generating a data structure for describing a device type after sorting managed devices according to their types and sorting various types of data of each managed device ~~so as~~ to ~~form~~ different modules, wherein ~~the~~ a second set of data items for describing the data structure ~~include~~ comprises a device type, a module ID, a priority, polling interval multiple and a corresponding daemon ID.

7.   (Currently amended) The method of Claim 6, wherein ~~said set of devices to be polled is a current operation device set and the~~ a third set of data items for describing ~~this set include device ID, module ID,~~ the first set of devices comprises a device type and ~~the~~ a last polling time; and

_____ the method further comprises:

    determining a second set of devices of which connection states need to be

detected from the managed devices, wherein the second set of devices at least

comprises current display device set; and

    ~~said set of devices whose connection states need to be detected is a current~~

~~display device set and the~~ a fourth set of data items for describing ~~this~~ the second set

~~include~~ of devices at least comprises a device ID and a connection state.

    8.   (Currently amended)   The method of Claim_7, wherein the step of

~~dispatching the polling~~polling the at least one module through the current polling task

queue comprises:

    a. setting ~~said~~ a polling initiating time at the summation of the current time plus a

polling interval;

    b. determining whether there is a free task in the current polling task queue

based on the occupied flag; if so, continuing the process, otherwise returning to step b;

    c. selecting ~~the~~ a next device module to be polled from the current operation

device set; and

    d. determining whether the information obtained in step c is Null ~~or not~~; if not,

assigning a task ID to the selected device module and inserting the task ID into the

current polling task queue, and simultaneously sending a message for initiating the

polling of said device module to the corresponding daemon process, then returning to

step b; if so, determining whether all tasks in the current polling task queue are in free

state, if all tasks are in free state, ending the process, otherwise returning to step b.

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9.   (Currently amended) The method of Claim 8, ~~step~~ ~~c~~the step of selecting a next device module to be polled from the currently operation device set further comprising:

~~c1.~~ selecting the next device module;

~~c2.~~ determining whether [(the current time − the last polling time)/polling interval multiple of the module] is greater than or equal to the system polling interval, if so, continuing the process, otherwise going to step c4; and

~~c3.~~ determining whether there is a module with higher priority of the same device being polled in the current polling task queue; if so, returning to step c1, otherwise returning the device module information and ending step c; or

~~c4.~~ determining whether said polling interval multiple is greater than one; if so, returning to step c1, otherwise returning a message of NULL and ending step c.

10.   (Currently amended) The method of Claim ~~1~~7, further comprising:

~~1)~~ selecting sequentially a device from the set consisting of devices whose connection states need to be detected and making ping operation for the device; wherein the success of ping operation shows said device is connected to the network management system and failure of ping operation shows said device is not connected to the network management system; if the connection state of said device is changed, notifying other daemons and foregrounds about this condition.

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